

WHAT IS CLAIMED IS:

1. An incoming message alarming system, comprising:

a wireless communication system for receiving an incoming  
5 message from a calling mobile communication terminal and  
transmitting base alarm information including an identification  
of the calling mobile communication terminal; and

a messenger service system for receiving the base alarm  
information from the wireless communication system and  
10 informing a called subscriber of arrival of the incoming  
message through a messenger service.

2. The incoming message alarming system of claim 1,  
wherein the wireless communication system comprises:

15 a base station for receiving the incoming message from  
the calling mobile communication terminal;

a mobile switching center for receiving the incoming  
message from the base station and transmitting the base alarm  
information to a messenger service system; and

20 a Home Location Register for storing location information  
of the called subscriber, subscriber information on whether or  
not the called subscriber is an incoming message alarming  
service subscriber, and flag information indicating an  
activation state of the incoming message alarming service, and  
25 wherein the messenger service system comprises:

a messenger server for receiving the base alarm information from the wireless communication system and transmitting incoming message alarming information indicating arrival of the incoming message to the called mobile  
5 communication terminal; and

a messenger information database for storing an IP address and a messenger ID of the called subscriber,

wherein the messenger server informs the called subscriber of the incoming message's arrival by using the IP  
10 address.

3. The incoming message alarming system of claim 1, wherein the messenger service system comprises a messenger server for receiving the base alarm information from the  
15 wireless communication system and transmitting incoming message alarming information indicating arrival of the incoming message to the called mobile communication terminal, and wherein the messenger server comprises a messenger information database for storing an IP address and a messenger ID of the called  
20 subscriber.

4. The incoming message alarming system of claim 2, wherein the messenger server asks the called subscriber whether to use the incoming message service and stores resultant  
25 information on whether to use the incoming message service

("use information") in the messenger information database.

5. The incoming message alarming system of claim 4, wherein the flag information is updated by the use information.

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6. The incoming message alarming system of claim 5, wherein the messenger server transmits the incoming message alarming information to the called subscriber, with reference to the flag information, when the incoming message alarming service has been activated.

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7. The incoming message alarming system of claim 5, wherein the messenger server temporarily stores the incoming message alarming information, with reference to the flag information, when the incoming message alarming service has not been activated.

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8. A wireless communication system, comprising:

a base station for receiving an incoming message from a calling mobile communication terminal; and

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a mobile switching center for receiving the incoming message from the base station and transmitting base alarm information to a messenger service system.

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9. The wireless communication system of claim 8, wherein

the base alarm information is at least one of identifications of a calling mobile communication terminal sending the incoming message and the called mobile communication terminal, if the incoming message is a call, and is at least one of  
5 identifications of a calling mobile communication terminal and the called mobile communication terminal, and the content of a short message, if the incoming message is the short message.

10 10. The wireless communication system of claim 8, wherein the mobile switching center temporarily stores the base alarm information when the base alarm information is not able to be transmitted to the messenger service system.

11. A messenger service system, comprising:  
15 a messenger server for transmitting to a called mobile communication terminal incoming message alarming information indicating arrival of an incoming message transmitted from a calling mobile communication terminal; and

a messenger information database for storing an IP  
20 address and a messenger ID of the called subscriber,

wherein the messenger server informs the called subscriber of the incoming message's arrival by using the IP address.

25 12. The messenger service system of claim 11, wherein the

messenger server transmits the incoming message alarming information through internet to the called subscriber who has logged in a messenger service.

5        13. The messenger service system of claim 11, wherein the messenger server temporarily stores the incoming message alarming information when the incoming message alarming information is not able to be transmitted to the called subscriber.

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14. The messenger service system of claim 11, wherein the incoming message alarming information is at least one of an identification of a calling mobile communication terminal sending the incoming message and information indicating the  
15 incoming message's arrival, if the incoming message is a call, and is at least one of an identification of the calling mobile communication terminal and the content of a short message, if the incoming message is the short message.

20        15. A messenger service system, comprising a messenger server for transmitting to a called mobile communication terminal incoming message alarming information indicating arrival of an incoming message transmitted from a calling mobile communication terminal and wherein the messenger server  
25 comprises a messenger information database for storing an IP

address and a messenger ID of the called subscriber.

16. The messenger service system of claim 15, wherein the messenger server transmits the incoming message alarming  
5 information through internet to the called subscriber who has logged in a messenger service.

17. The messenger service system of claim 15, wherein the messenger server temporarily stores the incoming message  
10 alarming information when the incoming message alarming information is not able to be transmitted to the called subscriber.

18. A method for alarming an incoming message of a mobile  
15 communication terminal, comprising:

transmitting base alarm information including an identification of a called mobile communication terminal;

receiving the base alarm information and searching an IP address corresponding to the identification of the called  
20 mobile communication terminal; and

alarming arrival of the incoming message to a called subscriber by using the searched IP address through a messenger service.

25 19. The method of claim 18, wherein said transmitting

base alarm information comprises:

receiving an incoming message from a calling mobile communication terminal;

checking whether or not the called subscriber is an incoming message alarming service subscriber;

if the called subscriber is an incoming message alarming service subscriber, checking whether or not the incoming message alarming service has been activated; and

if the incoming message alarming service has been activated, transmitting the base alarm information.

20. The method of claim 18, wherein said alarming arrival of the incoming message to a called subscriber comprises:

checking whether or not the called subscriber has logged in the messenger service;

if the called subscriber has logged in the messenger service, checking whether or not the called subscriber wants to use the incoming message alarming service;

if the called subscriber wants to use the incoming message alarming service, transmitting the incoming message alarming information to a personal computer which the called subscriber has logged in; and

creating an incoming message alarming window indicating the incoming message's arrival.

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21. The method of claim 19, wherein said transmitting base alarm information further comprises:

if the incoming message alarming service has not been activated, temporarily storing the base alarm information until  
5 the incoming message alarming service is activated; and

when the incoming message alarming service is activated, transmitting the base alarm information.

22. The method of claim 20, wherein said alarming arrival  
10 of the incoming message to a called subscriber further comprises:

if the incoming message alarming service has not been activated, temporarily storing the incoming message alarming information until the incoming message alarming service is  
15 activated; and

when the incoming message alarming service is activated, transmitting the incoming message alarming information to the personal computer.